

# Carlos B Mantilla

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/213631/carlos-b-mantilla-publications-by-citations.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

190  
papers

5,490  
citations

43  
h-index

66  
g-index

205  
ext. papers

6,186  
ext. citations

3.5  
avg, IF

5.9  
L-index

#	Paper	IF	Citations
190	Effect of neurolytic celiac plexus block on pain relief, quality of life, and survival in patients with unresectable pancreatic cancer: a randomized controlled trial. <i>JAMA - Journal of the American Medical Association</i> , <b>2004</b> , 291, 1092-9	27.4	359
189	Frequency of myocardial infarction, pulmonary embolism, deep venous thrombosis, and death following primary hip or knee arthroplasty. <i>Anesthesiology</i> , <b>2002</b> , 96, 1140-6	4.3	284
188	Smoking and pain: pathophysiology and clinical implications. <i>Anesthesiology</i> , <b>2010</b> , 113, 977-92	4.3	194
187	Risk factors for clinically relevant pulmonary embolism and deep venous thrombosis in patients undergoing primary hip or knee arthroplasty. <i>Anesthesiology</i> , <b>2003</b> , 99, 552-60; discussion 5A	4.3	175
186	Mechanism of endothelial dysfunction in apolipoprotein E-deficient mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2001</b> , 21, 1017-22	9.4	143
185	Neuraxial vs general anaesthesia for total hip and total knee arthroplasty: a systematic review of comparative-effectiveness research. <i>British Journal of Anaesthesia</i> , <b>2016</b> , 116, 163-76	5.4	130
184	Falls and major orthopaedic surgery with peripheral nerve blockade: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2013</b> , 110, 518-28	5.4	116
183	Diaphragm motor unit recruitment in rats. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173, 101-6	2.8	104
182	Retrograde labeling of phrenic motoneurons by intrapleural injection. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 182, 244-9	3	98
181	Diaphragm muscle sarcopenia in aging mice. <i>Experimental Gerontology</i> , <b>2013</b> , 48, 881-7	4.5	90
180	Motoneuron BDNF/TrkB signaling enhances functional recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2013</b> , 247, 101-9	5.7	80
179	Phrenic motoneuron morphology during rapid diaphragm muscle growth. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 563-72	3.7	79
178	Anaesthetic care of patients undergoing primary hip and knee arthroplasty: consensus recommendations from the International Consensus on Anaesthesia-Related Outcomes after Surgery group (ICAROS) based on a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 269-287	5.4	74
177	Neurotrophins improve neuromuscular transmission in the adult rat diaphragm. <i>Muscle and Nerve</i> , <b>2004</b> , 29, 381-6	3.4	74
176	The role of cyclic-ADP-ribose-signaling pathway in oxytocin-induced Ca <sup>2+</sup> transients in human myometrium cells. <i>Endocrinology</i> , <b>2004</b> , 145, 881-9	4.8	70
175	Phrenic motor unit recruitment during ventilatory and non-ventilatory behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 179, 57-63	2.8	68
174	Neurotrophins in lung health and disease. <i>Expert Review of Respiratory Medicine</i> , <b>2010</b> , 4, 395-411	3.8	64

173	Perioperative nerve injury after total knee arthroplasty: regional anesthesia risk during a 20-year cohort study. <i>Anesthesiology</i> , <b>2011</b> , 114, 311-7	4.3	63
172	Synaptic vesicle pools at diaphragm neuromuscular junctions vary with motoneuron soma, not axon terminal, inactivity. <i>Neuroscience</i> , <b>2007</b> , 146, 178-89	3.9	62
171	Localized delivery of brain-derived neurotrophic factor-expressing mesenchymal stem cells enhances functional recovery following cervical spinal cord injury. <i>Journal of Neurotrauma</i> , <b>2015</b> , 32, 185-93	5.4	61
170	Preoperative gabapentin for acute post-thoracotomy analgesia: a randomized, double-blinded, active placebo-controlled study. <i>Pain Practice</i> , <b>2012</b> , 12, 175-83	3	61
169	A Three-arm Randomized Clinical Trial Comparing Continuous Femoral Plus Single-injection Sciatic Peripheral Nerve Blocks versus Periarticular Injection with Ropivacaine or Liposomal Bupivacaine for Patients Undergoing Total Knee Arthroplasty. <i>Anesthesiology</i> , <b>2017</b> , 126, 1139-1150	4.3	59
168	Denervation effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , <b>2006</b> , 100, 1617-22	3.7	58
167	Invited review: Mechanisms underlying motor unit plasticity in the respiratory system. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 1230-41	3.7	57
166	Structure-activity relationships in rodent diaphragm muscle fibers vs. neuromuscular junctions. <i>Respiratory Physiology and Neurobiology</i> , <b>2012</b> , 180, 88-96	2.8	56
165	Recruitment of rat diaphragm motor units across motor behaviors with different levels of diaphragm activation. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 1308-16	3.7	54
164	Mechanical properties of respiratory muscles. <i>Comprehensive Physiology</i> , <b>2013</b> , 3, 1553-67	7.7	54
163	Neurotrophin effects on intracellular Ca <sup>2+</sup> and force in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2006</b> , 291, L447-56	5.8	54
162	Targeted delivery of TrkB receptor to phrenic motoneurons enhances functional recovery of rhythmic phrenic activity after cervical spinal hemisection. <i>PLoS ONE</i> , <b>2013</b> , 8, e64755	3.7	53
161	Functional impact of diaphragm muscle sarcopenia in both male and female mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 309, L46-52	5.8	51
160	Prolonged C2 spinal hemisection-induced inactivity reduces diaphragm muscle specific force with modest, selective atrophy of type IIx and/or IIb fibers. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 380-6	3.7	50
159	Functional impact of sarcopenia in respiratory muscles. <i>Respiratory Physiology and Neurobiology</i> , <b>2016</b> , 226, 137-46	2.8	49
158	Perioperative nerve injury after total hip arthroplasty: regional anesthesia risk during a 20-year cohort study. <i>Anesthesiology</i> , <b>2011</b> , 115, 1172-8	4.3	49
157	Chronic assessment of diaphragm muscle EMG activity across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2011</b> , 177, 176-82	2.8	48
156	Ageing and neurotrophic signalling effects on diaphragm neuromuscular function. <i>Journal of Physiology</i> , <b>2015</b> , 593, 431-40	3.9	46

155	Neuromuscular adaptations to respiratory muscle inactivity. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 169, 133-40	2.8	46
154	Breathing: Motor Control of Diaphragm Muscle. <i>Physiology</i> , <b>2018</b> , 33, 113-126	9.8	45
153	Systems biology of skeletal muscle: fiber type as an organizing principle. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2012</b> , 4, 457-73	6.6	45
152	Phrenic motor neuron loss in aged rats. <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 1852-1862	3.2	44
151	The effect of denervation on protein synthesis and degradation in adult rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 438-44	3.7	44
150	Associations between heat pain perception and opioid dose among patients with chronic pain undergoing opioid tapering. <i>Pain Medicine</i> , <b>2010</b> , 11, 1587-98	2.8	44
149	Chronic postthoracotomy pain and health-related quality of life. <i>Annals of Thoracic Surgery</i> , <b>2012</b> , 93, 1242-7	2.7	43
148	Synaptic vesicle distribution and release at rat diaphragm neuromuscular junctions. <i>Journal of Neurophysiology</i> , <b>2007</b> , 98, 478-87	3.2	43
147	Denervation-induced changes in myosin heavy chain expression in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 611-9	3.7	43
146	Risk for perioperative myocardial infarction and mortality in patients undergoing hip or knee arthroplasty: the role of anemia. <i>Transfusion</i> , <b>2011</b> , 51, 82-91	2.9	42
145	Key aspects of phrenic motoneuron and diaphragm muscle development during the perinatal period. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1818-27	3.7	42
144	Perioperative nerve injury after total shoulder arthroplasty: assessment of risk after regional anesthesia. <i>Regional Anesthesia and Pain Medicine</i> , <b>2012</b> , 37, 490-4	3.4	41
143	Non-stationarity and power spectral shifts in EMG activity reflect motor unit recruitment in rat diaphragm muscle. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 185, 400-9	2.8	40
142	Respiratory muscle plasticity. <i>Respiratory Physiology and Neurobiology</i> , <b>2005</b> , 147, 235-51	2.8	40
141	Analysis of muscle fiber clustering in the diaphragm muscle of sarcopenic mice. <i>Muscle and Nerve</i> , <b>2015</b> , 52, 76-82	3.4	39
140	TrkB kinase activity maintains synaptic function and structural integrity at adult neuromuscular junctions. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 910-20	3.7	39
139	Phrenic motoneuron expression of serotonergic and glutamatergic receptors following upper cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2012</b> , 234, 191-9	5.7	39
138	Role of neurotrophins in recovery of phrenic motor function following spinal cord injury. <i>Respiratory Physiology and Neurobiology</i> , <b>2009</b> , 169, 218-25	2.8	38

137	Impact of aging on diaphragm muscle function in male and female Fischer 344 rats. <i>Physiological Reports</i> , <b>2018</b> , 6, e13786	2.6	37
136	TrkB kinase activity is critical for recovery of respiratory function after cervical spinal cord hemisection. <i>Experimental Neurology</i> , <b>2014</b> , 261, 190-5	5.7	37
135	Continuous Posterior Lumbar Plexus Nerve Block Versus Periarticular Injection with Ropivacaine or Liposomal Bupivacaine for Total Hip Arthroplasty: A Three-Arm Randomized Clinical Trial. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2017</b> , 99, 1836-1845	5.6	36
134	Neuregulin-1 at synapses on phrenic motoneurons. <i>Journal of Comparative Neurology</i> , <b>2010</b> , 518, 4213-25.4	3.4	36
133	The novel TrkB receptor agonist 7,8-dihydroxyflavone enhances neuromuscular transmission. <i>Muscle and Nerve</i> , <b>2012</b> , 45, 274-6	3.4	35
132	Safety factor for neuromuscular transmission at type-identified diaphragm fibers. <i>Muscle and Nerve</i> , <b>2007</b> , 35, 800-3	3.4	34
131	Mechanisms underlying myosin heavy chain expression during development of the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 1546-55	3.7	33
130	Have bilateral total knee arthroplasties become safer? A population-based trend analysis. <i>Clinical Orthopaedics and Related Research</i> , <b>2013</b> , 471, 17-25	2.2	32
129	Synaptic vesicle cycling at type-identified diaphragm neuromuscular junctions. <i>Muscle and Nerve</i> , <b>2004</b> , 30, 774-83	3.4	30
128	TrkB gene therapy by adeno-associated virus enhances recovery after cervical spinal cord injury. <i>Experimental Neurology</i> , <b>2016</b> , 276, 31-40	5.7	29
127	Developmental effects on myonuclear domain size of rat diaphragm fibers. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 787-94	3.7	29
126	Neuregulin-dependent protein synthesis in C2C12 myotubes and rat diaphragm muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 291, C1056-61	5.4	29
125	The Impact of Midcervical Contusion Injury on Diaphragm Muscle Function. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 500-9	5.4	29
124	Diaphragm muscle function following midcervical contusion injury in rats. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 221-230	3.7	29
123	Diaphragm neuromuscular transmission failure in aged rats. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 93-104	3.4	28
122	Role of TrkB kinase activity in aging diaphragm neuromuscular junctions. <i>Experimental Gerontology</i> , <b>2015</b> , 72, 184-91	4.5	28
121	Cricoid pressure training using simulation: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2013</b> , 111, 338-46	5.4	28
120	Intracellular signaling pathways regulating net protein balance following diaphragm muscle denervation. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C318-27	5.4	27

119	Trophic factor expression in phrenic motor neurons. <i>Respiratory Physiology and Neurobiology</i> , <b>2008</b> , 164, 252-62	2.8	27
118	Effect of mechanical ventilation on the diaphragm. <i>New England Journal of Medicine</i> , <b>2008</b> , 358, 1392-4	59.2	27
117	Diaphragm electromyographic activity following unilateral midcervical contusion injury in rats. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 545-555	3.2	26
116	Functional recovery after cervical spinal cord injury: Role of neurotrophin and glutamatergic signaling in phrenic motoneurons. <i>Respiratory Physiology and Neurobiology</i> , <b>2016</b> , 226, 128-36	2.8	26
115	Novel method for transdiaphragmatic pressure measurements in mice. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 188, 56-9	2.8	26
114	Impact of Frailty on Outcomes After Primary and Revision Total Hip Arthroplasty. <i>Journal of Arthroplasty</i> , <b>2019</b> , 34, 56-64.e5	4.4	26
113	Impact of unilateral denervation on transdiaphragmatic pressure. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 210, 14-21	2.8	25
112	Convergence of pattern generator outputs on a common mechanism of diaphragm motor unit recruitment. <i>Progress in Brain Research</i> , <b>2014</b> , 209, 309-29	2.9	25
111	Volume measurements in confocal microscopy. <i>Methods in Enzymology</i> , <b>1999</b> , 307, 296-315	1.7	25
110	EMG-based detection of inspiration in the rat diaphragm muscle. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 1204-7		24
109	Influence of corticosteroids on myonuclear domain size in the rat diaphragm muscle. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 1715-22	3.7	24
108	Diaphragm muscle sarcopenia in Fischer 344 and Brown Norway rats. <i>Experimental Physiology</i> , <b>2016</b> , 101, 883-94	2.4	24
107	BDNF effects on functional recovery across motor behaviors after cervical spinal cord injury. <i>Journal of Neurophysiology</i> , <b>2017</b> , 117, 537-544	3.2	23
106	Impact of sarcopenia on diaphragm muscle fatigue. <i>Experimental Physiology</i> , <b>2019</b> , 104, 1090-1099	2.4	23
105	Motoneuron glutamatergic receptor expression following recovery from cervical spinal hemisection. <i>Journal of Comparative Neurology</i> , <b>2017</b> , 525, 1192-1205	3.4	23
104	Aging-related changes in respiratory system mechanics and morphometry in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 311, L167-76	5.8	23
103	Compensatory effects following unilateral diaphragm paralysis. <i>Respiratory Physiology and Neurobiology</i> , <b>2017</b> , 246, 39-46	2.8	22
102	Fatigue failure of the bolts connecting a Francis turbine with the shaft. <i>Engineering Failure Analysis</i> , <b>2018</b> , 90, 1-13	3.2	21

101	A novel approach for targeted delivery to motoneurons using cholera toxin-B modified protocells. <i>Journal of Neuroscience Methods</i> , <b>2016</b> , 273, 160-174	3	21
100	Correlation of respiratory activity of contralateral diaphragm muscles for evaluation of recovery following hemiparesis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 404-7	0.9	20
99	In response to Point:Counterpoint: "Satellite cell addition is/is not obligatory for skeletal muscle hypertrophy". <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 1104	3.7	20
98	Intrathecal Hydromorphone and Morphine for Postcesarean Delivery Analgesia: Determination of the ED90 Using a Sequential Allocation Biased-Coin Method. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 123, 690-7	3.9	19
97	Respiratory muscle plasticity. <i>Comprehensive Physiology</i> , <b>2012</b> , 2, 1441-62	7.7	18
96	Impact of diaphragm muscle fiber atrophy on neuromotor control. <i>Respiratory Physiology and Neurobiology</i> , <b>2013</b> , 189, 411-8	2.8	18
95	Chronic TrkB agonist treatment in old age does not mitigate diaphragm neuromuscular dysfunction. <i>Physiological Reports</i> , <b>2017</b> , 5, e13103	2.6	17
94	Impairment of diaphragm muscle force and neuromuscular transmission after normothermic cardiopulmonary bypass: effect of low-dose inhaled CO. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 298, R784-9	3.2	17
93	Regional differences in serotonergic input to canine parasternal intercostal motoneurons. <i>Journal of Applied Physiology</i> , <b>2000</b> , 88, 1581-9	3.7	16
92	Associations between heat pain perception and pain severity among patients with chronic pain. <i>Pain Medicine</i> , <b>2010</b> , 11, 1554-63	2.8	15
91	Regulation of neuromuscular transmission by neurotrophins. <i>Acta Physiologica Sinica</i> , <b>2003</b> , 55, 617-24	1.3	15
90	Glutamatergic input varies with phrenic motor neuron size. <i>Journal of Neurophysiology</i> , <b>2019</b> , 122, 1518-1529	3.5	14
89	Retrospective Derivation and Validation of an Automated Electronic Search Algorithm to Identify Post Operative Cardiovascular and Thromboembolic Complications. <i>Applied Clinical Informatics</i> , <b>2015</b> , 6, 565-76	3.1	14
88	Optimizing conditions and avoiding pitfalls for prolonged axonal tracing with carbocyanine dyes in fixed rat spinal cords. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 154, 256-63	3	14
87	Functional Measurement of Respiratory Muscle Motor Behaviors Using Transdiaphragmatic Pressure. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1460, 309-19	1.4	14
86	Neuromotor control in chronic obstructive pulmonary disease. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 1246-52	3.7	13
85	Reduced ribosomal protein s6 phosphorylation after progressive resistance exercise in growing adolescent rats. <i>Journal of Strength and Conditioning Research</i> , <b>2012</b> , 26, 1657-66	3.2	13
84	Frequency-dependent lipid raft uptake at rat diaphragm muscle axon terminals. <i>Muscle and Nerve</i> , <b>2019</b> , 59, 611-618	3.4	11



83	Semi-automated assessment of transdiaphragmatic pressure variability across motor behaviors. <i>Respiratory Physiology and Neurobiology</i> , <b>2015</b> , 215, 73-81	2.8	11
82	Dynamics and coexistence in a system with intraguild mutualism. <i>Ecological Complexity</i> , <b>2013</b> , 14, 64-74	2.6	11
81	Dual-epidural catheter technique and perioperative outcomes after Ivor-Lewis esophagectomy. <i>Regional Anesthesia and Pain Medicine</i> , <b>2013</b> , 38, 3-8	3.4	11
80	Frailty Index Is Associated With Periprosthetic Fracture and Mortality After Total Knee Arthroplasty. <i>Orthopedics</i> , <b>2019</b> , 42, 335-343	1.5	11
79	Diaphragm muscle sarcopenia into very old age in mice. <i>Physiological Reports</i> , <b>2020</b> , 8, e14305	2.6	11
78	Aging reduces succinate dehydrogenase activity in rat type IIX/IIb diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 70-77	3.7	11
77	Heterogeneous glutamatergic receptor mRNA expression across phrenic motor neurons in rats. <i>Journal of Neurochemistry</i> , <b>2020</b> , 153, 586-598	6	11
76	Phrenic motoneuron structural plasticity across models of diaphragm muscle paralysis. <i>Journal of Comparative Neurology</i> , <b>2018</b> , 526, 2973-2983	3.4	11
75	Impaired Autophagy in Motor Neurons: A Final Common Mechanism of Injury and Death. <i>Physiology</i> , <b>2018</b> , 33, 211-224	9.8	10
74	Impact of glutamatergic and serotonergic neurotransmission on diaphragm muscle activity after cervical spinal hemisection. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 1732-1738	3.2	10
73	Nonalcoholic steatohepatitis in bariatric patients with a diagnosis of obstructive sleep apnea. <i>Obesity Facts</i> , <b>2012</b> , 5, 587-96	5.1	10
72	Uptake and intracellular fate of cholera toxin subunit b-modified mesoporous silica nanoparticle-supported lipid bilayers (aka protocells) in motoneurons. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 661-672	6	9
71	Diaphragm muscle activity across respiratory motor behaviors in awake and lightly anesthetized rats. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 915-922	3.7	8
70	CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. <i>Journal of Physiology</i> , <b>2013</b> , 591, 5259-62	3.9	8
69	Differential inhibition of neuronal Na <sup>+</sup> -Ca <sup>2+</sup> exchange versus store-operated Ca <sup>2+</sup> channels by volatile anesthetics in pheochromocytoma (PC12) cells. <i>Anesthesiology</i> , <b>2005</b> , 103, 93-101	4.3	8
68	Disproportionate loss of excitatory inputs to smaller phrenic motor neurons following cervical spinal hemisection. <i>Journal of Physiology</i> , <b>2020</b> , 598, 4693-4711	3.9	8
67	Preoperative gabapentin in patients undergoing primary total knee arthroplasty. <i>Acute Pain</i> , <b>2009</b> , 11, 57-63		6
66	Sodium oxybate (gamma-hydroxybutyrate): anesthetic agent or source of anesthetic interactions?. <i>Mayo Clinic Proceedings</i> , <b>2005</b> , 80, 960	6.4	6



65	Neuraxial anesthesia is associated with improved survival after total joint arthroplasty depending on frailty: a cohort study. <i>Regional Anesthesia and Pain Medicine</i> , <b>2020</b> , 45, 405-411	3.4	6
64	Peripheral nerve block anesthesia/analgesia for patients undergoing primary hip and knee arthroplasty: recommendations from the International Consensus on Anesthesia-Related Outcomes after Surgery (ICAROS) group based on a systematic review and meta-analysis of current literature. <i>Regional Anesthesia and Pain Medicine</i> , <b>2021</b> , 46, 971-985	3.4	6
63	Inhibition of TrkB kinase activity impairs transdiaphragmatic pressure generation. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 338-344	3.7	5
62	Quantifying mitochondrial volume density in phrenic motor neurons. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 353, 109093	3	5
61	Increased Risk of Postthoracotomy Pain Syndrome in Patients with Prolonged Hospitalization and Increased Postoperative Opioid Use. <i>Pain Research and Treatment</i> , <b>2016</b> , 2016, 7945145	1.9	5
60	Perioperative Nerve Injury After Peripheral Nerve Block in Patients With Previous Systemic Chemotherapy. <i>Regional Anesthesia and Pain Medicine</i> , <b>2016</b> , 41, 685-690	3.4	5
59	Age-Related Remodeling of Neuromuscular Junctions <b>2011</b> , 37-54		4
58	How Is Surgical Risk Best Assessed? A Cohort Comparison of Measures in Total Joint Arthroplasty. <i>Journal of Arthroplasty</i> , <b>2021</b> , 36, 851-856.e3	4.4	4
57	Acute intrathecal BDNF enhances functional recovery after cervical spinal cord injury in rats. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 2158-2165	3.2	4
56	Age-related impairment of autophagy in cervical motor neurons. <i>Experimental Gerontology</i> , <b>2021</b> , 144, 111193	4.5	4
55	Gene therapy and respiratory neuroplasticity. <i>Experimental Neurology</i> , <b>2017</b> , 287, 261-267	5.7	3
54	Neurotrophins improve synaptic transmission in the adult rodent diaphragm. <i>Neurophysiology</i> , <b>2007</b> , 39, 284-293	0.6	3
53	Functional Development of Respiratory Muscles <b>2017</b> , 692-705.e3		2
52	Skeletal Muscle Changes in Hypothyroidism <b>2009</b> , 1087-1101		2
51	Transdiaphragmatic pressure measurements reveal age-related diaphragm muscle dysfunction during non-ventilatory behaviors. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.7	0.9	2
50	Electromyogram-triggered inspiratory event detection algorithm <b>2012</b> ,		1
49	Influence of sex hormones on the neuromuscular junction. <i>Advances in Molecular and Cell Biology</i> , <b>2004</b> , 34, 183-194		1
48	Inhaled corticosteroids and bone density. <i>Chest</i> , <b>1995</b> , 107, 1477	5.3	1

47	Rapid semi-automated segmentation and analysis of neuronal morphology and function from confocal image data		1
46	The Effect of TNF- $\alpha$ on Mitochondrial Morphology in Model (NSC-34) Motor Neurons. <i>FASEB Journal</i> , <b>2019</b> , 33, 542.17	0.9	1
45	Motor Unit Recruitment Order in Diaphragm Muscle Following Spinal Cord Injury. <i>FASEB Journal</i> , <b>2010</b> , 24, 1064.15	0.9	1
44	Frequency-domain analysis of diaphragm muscle EMG activity across ventilatory and non-ventilatory motor behaviors. <i>FASEB Journal</i> , <b>2011</b> , 25, 1111.24	0.9	1
43	Adeno-associated viral delivery of TrkB receptor enhances functional recovery after cervical spinal hemisection. <i>FASEB Journal</i> , <b>2012</b> , 26, lb822	0.9	1
42	TrkB signaling contributes to transdiaphragmatic pressure generation in aged mice. <i>Journal of Neurophysiology</i> , <b>2021</b> , 125, 1157-1163	3.2	1
41	Peripheral Nerve Blockade with Combined Standard and Liposomal Bupivacaine in Major Lower-Extremity Amputation. <i>Pain Practice</i> , <b>2021</b> , 21, 299-307	3	1
40	Automated evaluation of respiratory signals to provide insight into respiratory drive.. <i>Respiratory Physiology and Neurobiology</i> , <b>2022</b> , 103872	2.8	1
39	Three Risk Stratification Tools and Postoperative Pneumonia After Noncardiothoracic Surgery. <i>American Surgeon</i> , <b>2021</b> , 87, 1207-1213	0.8	0
38	Functional Development of Respiratory Muscles <b>2011</b> , 937-952		0
37	Frailty Transitions One Year After Total Joint Arthroplasty: A Cohort Study. <i>Journal of Arthroplasty</i> , <b>2022</b> , 37, 10-18.e2	4.4	0
36	Cervical spinal hemisection alters phrenic motor neuron glutamatergic mRNA receptor expression.. <i>Experimental Neurology</i> , <b>2022</b> , 114030	5.7	0
35	Rebuttal from Gary C. Sieck and Carlos B. Mantilla. <i>Journal of Physiology</i> , <b>2013</b> , 591, 5265	3.9	
34	Functional Development of Respiratory Muscles <b>2004</b> , 848-863		
33	NEUROMUSCULAR TRANSMISSION SAFETY FACTOR VARIES ACROSS DIAPHRAGM MUSCLE FIBER TYPE. <i>FASEB Journal</i> , <b>2006</b> , 20, A1210	0.9	
32	DIAPHRAGM MUSCLE PROTEIN UBIQUITINATION FOLLOWING UNILATERAL DENERVATION. <i>FASEB Journal</i> , <b>2006</b> , 20, A803	0.9	
31	Recruitment order of diaphragm muscle (DIAM) motor units is maintained with the restoration of rhythmic DIAM activity following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , <b>2007</b> , 21, A559	0.9	
30	Phrenic motoneuron expression of neurotrophins and their receptor TrkB following cervical C2 spinal cord hemisection. <i>FASEB Journal</i> , <b>2007</b> , 21, A560	0.9	

- 29 Neuregulin decreases protein degradation in skeletal muscle. *FASEB Journal*, **2008**, 22, 757.34 0.9
- 28 Neuregulin minimizes protein degradation induced by dexamethasone. *FASEB Journal*, **2008**, 22, 754.4 0.9
- 27 Spinal cord hemisection disrupts descending neuregulin input to phrenic motoneurons. *FASEB Journal*, **2008**, 22, 1232.5 0.9
- 26 Acute Impact of Disrupting BDNF/TrkB Signaling on Diaphragm Muscle Force Generation across Motor Behaviors. *FASEB Journal*, **2019**, 33, 844.13 0.9
- 25 Aging effects on oxidative capacity in type-identified diaphragm muscle fibers. *FASEB Journal*, **2019**, 33, 539.3 0.9
- 24 The Role of TrkB Kinase Activity in Stabilization of Presynaptic Terminals Wanes in Old Age. *FASEB Journal*, **2019**, 33, 844.11 0.9
- 23 Age does not increase muscle fatigue resistance of the diaphragm. *FASEB Journal*, **2019**, 33, 538.4 0.9
- 22 Distribution of Ipsilateral and Contralateral Glutamatergic Synaptic Inputs to Phrenic Motor Neurons. *FASEB Journal*, **2019**, 33, 844.14 0.9
- 21 Assessment of Diaphragm EMG Activity Recovery Following Upper Cervical Spinal Cord Injury. *FASEB Journal*, **2015**, 29, 659.9 0.9
- 20 Diaphragm Muscle Sarcopenia is Present in Both Male and Female Mice. *FASEB Journal*, **2015**, 29, 660.7 0.9
- 19 A Novel Approach to Target Motoneurons Using Mesoporous Silica Nanoparticles. *FASEB Journal*, **2015**, 29, 660.9 0.9
- 18 Mesenchymal Stem Cell Survival after Intraspinal Transplantation. *FASEB Journal*, **2015**, 29, 1013.4 0.9
- 17 A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia. *FASEB Journal*, **2015**, 29, 660.8 0.9
- 16 Unilateral Denervation of the Diaphragm Muscle Increases Central Drive Only During Ventilatory Behaviors. *FASEB Journal*, **2015**, 29, 1013.5 0.9
- 15 Neuregulin-1: a trophic factor for phrenic motoneurons. *FASEB Journal*, **2009**, 23, 783.4 0.9
- 14 Enhanced three-dimensional visualization of rat phrenic motoneurons.. *FASEB Journal*, **2009**, 23, 783.3 0.9
- 13 Recruitment Order of Diaphragm Motor Units During Different Respiratory Behaviors. *FASEB Journal*, **2009**, 23, 1010.6 0.9
- 12 Unilateral denervation changes NRG/ErbB signaling in adult rat diaphragm muscle. *FASEB Journal*, **2009**, 23, 782.8 0.9

11	Complexity in intracellular regulation of protein balance following unilateral diaphragm denervation. <i>FASEB Journal</i> , <b>2010</b> , 24, 1046.2	0.9
10	Neuregulin improves neuromuscular transmission in diaphragm muscle of young rats. <i>FASEB Journal</i> , <b>2010</b> , 24, 1064.12	0.9
9	Neurotrophins improve neuromuscular transmission in rats with myasthenia gravis. <i>FASEB Journal</i> , <b>2010</b> , 24, 1064.13	0.9
8	Impact of BDNF/TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. <i>FASEB Journal</i> , <b>2010</b> , 24, 1064.14	0.9
7	Nonlinear Time-Domain Analysis of EMG Activity Reveals the Timing of Motor Unit Recruitment in Diaphragm Muscle. <i>FASEB Journal</i> , <b>2012</b> , 26, lb828	0.9
6	Role of bone marrow-derived mesenchymal stem cells in recovery following cervical spinal hemisection. <i>FASEB Journal</i> , <b>2012</b> , 26, 1147.1	0.9
5	Reduced ventilatory function and sarcopenia of the diaphragm muscle in a mouse model of advanced aging. <i>FASEB Journal</i> , <b>2012</b> , 26, lb779	0.9
4	Impact of TrkB signaling on recovery of phrenic activity after cervical spinal cord injury in rats. <i>FASEB Journal</i> , <b>2012</b> , 26, 1147.2	0.9
3	TrkB kinase activity is necessary for spontaneous recovery of ipsilateral rhythmic phrenic activity following cervical spinal cord hemisection. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.5	0.9
2	Orderly Recruitment of Diaphragm Motor Units Across Ventilatory and Non-Ventilatory Motor Behaviors. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.8	0.9
1	Glutamatergic neurotransmission plays a role in BDNF/TrkB.FL-induced enhancement of functional recovery after cervical spinal hemisection. <i>FASEB Journal</i> , <b>2013</b> , 27, 719.6	0.9